

**Tetra Tech, Inc.**

4213 State Street, Suite 100
 Santa Barbara, CA 93110-2847
 VOICE (805) 681-3100 FAX (805) 681-3108

Project: **Vandenberg Air Force Base IRP**
 Log of Well No. **31-MW-11**

Location: Approximately 300 feet northwest of Building 1892.

Date Started: 4/24/01 Completed: 4/24/01

Logged By: J. Harting Checked By: J. Harting, P.E.
J. Harting, #58000

Drilled By: Enrique Perez, Layne Christensen

Drilling Equipment: CME 750, 10-inch HSA

Sampling Equipment: 1-1/2-inch I.D. Split Spoon

GS Elev.: 179.9 ft above MSL TD: 32.5 ft bgs

4" PVC Blank Casing: from 0 ft bgs to 10.5 ft bgs

0.01" Screening Casing: from 10.5 ft bgs to 30.5 ft bgs

Bentonite Grout/Concrete: from 0 ft bgs to 5.5 ft bgs

Bentonite Transitional Seal: from 5.5 ft bgs to 8.5 ft bgs

2/12 Sand Filter Pack: from 8.5 ft bgs to 32.5 ft bgs

TOC Elev.: 182.55 ft above MSL

Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
	<u>sand</u> , brown (10YR 4/3), fine grained, poorly graded, rounded, dry, loose, trace organic material (grasses, etc.) dune sand.		SP					0/0	0855 Start drilling.
5	yellowish brown (10YR 5/6), slightly moist, medium dense, no organic material.					2 6 8	100	0.0/ 0.9	
10	brownish yellow (10YR 6/6), moist.					3 6 11	100		
15	<u>sand</u> , yellowish brown (10YR 5/4), fine grained, poorly graded, rounded, wet, medium dense, few silt, dune sand.		SM-SP			2 8 16	100		Groundwater encountered at 15.5 ft bgs.
20									

15.5 ft bgs Groundwater depth during drilling. 18.56 ft bgs Groundwater depth after well development on: 5/9/01

TC Number: A246-02

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Depth (ft bgs)	MATERIAL DESCRIPTION	Material Symbol	Material Type	Well Construction	Sample	Blow Counts per 6"	Percent Recovery	PID (ppm) Amb/Smp	REMARKS
20	<u>sand</u> , dark yellowish brown (10YR 4/4), fine grained, poorly graded, rounded, wet, dense, dune sand.		SP			4 15 16	100		
25	<u>sand</u> , dark yellowish brown (10YR 4/4), fine grained, poorly graded, rounded, wet, dense, few silt, alluvium.		SM-SP			4 12 16	100		
30	yellowish brown (10YR 5/4).								
	olive gray (5YR 5/2).					4 15 28	100		
	<u>silty sand</u> , dark gray (5Y 4/1), very fine grained, poorly graded, rounded, wet, dense, some silt, trace clay, non-plastic, alluvium.		SM						
35									
40									
45									

End drilling 0950.
Total depth at 32.5
ft bgs.